

FIGURE 1.
(PRIOR ART)

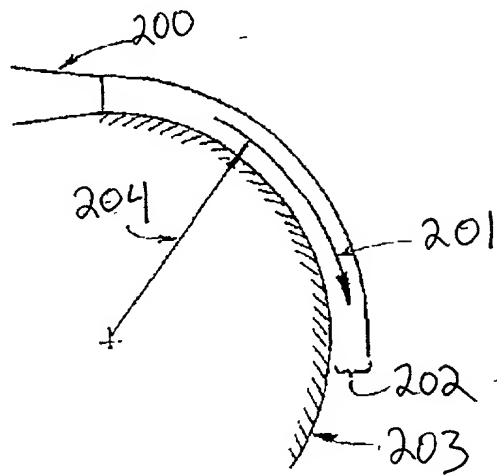


FIGURE 2
(PRIOR ART)

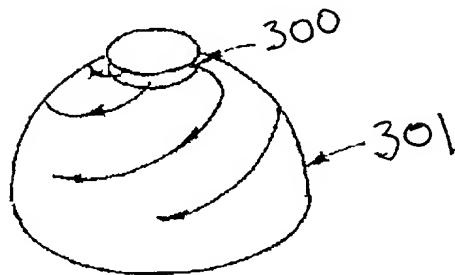


FIGURE 3.
(PRIOR ART)

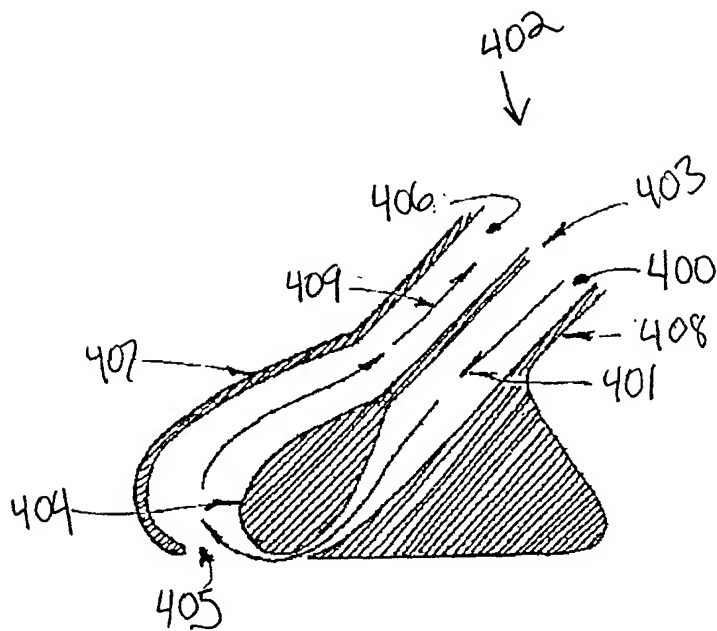


FIGURE 4
(PRIOR ART)

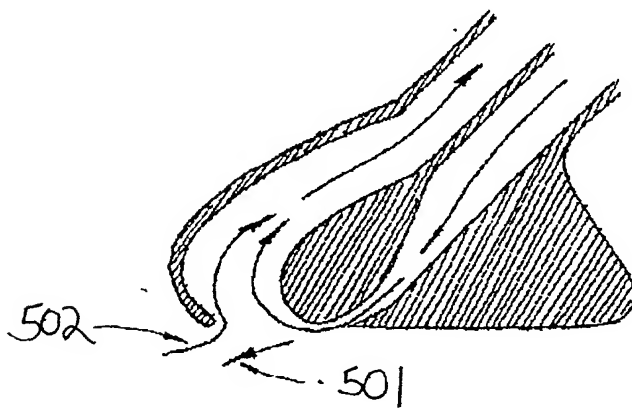


FIGURE 5
(PRIOR ART)

| General | | Cognitive | | Emotional | | Behavioral | | Social | | Physical | | Health | | Quality of Life | | | |
|-------------------|-------------------|-----------|----------|-------------------|------|------------|-------------------|--------|----------|-------------------|------|----------|-------------------|-----------------|----------|-------------------|------|
| Variable | Mean | SD | Mean | SD | Mean | SD | Mean | SD | Mean | SD | Mean | SD | Mean | SD | Mean | SD | |
| Age | 65.2 | 8.5 | 65.2 | 8.5 | 65.2 | 8.5 | 65.2 | 8.5 | 65.2 | 8.5 | 65.2 | 8.5 | 65.2 | 8.5 | 65.2 | 8.5 | |
| Gender | Male | 52.3 | 49.7 | Male | 52.3 | 49.7 | Male | 52.3 | 49.7 | Male | 52.3 | 49.7 | Male | 52.3 | 49.7 | Male | 52.3 |
| Education | High School | 35.2 | 32.8 | High School | 35.2 | 32.8 | High School | 35.2 | 32.8 | High School | 35.2 | 32.8 | High School | 35.2 | 32.8 | High School | 35.2 |
| Marital Status | Married | 45.1 | 42.3 | Married | 45.1 | 42.3 | Married | 45.1 | 42.3 | Married | 45.1 | 42.3 | Married | 45.1 | 42.3 | Married | 45.1 |
| Income | \$15,000-\$25,000 | 28.5 | 25.1 | \$15,000-\$25,000 | 28.5 | 25.1 | \$15,000-\$25,000 | 28.5 | 25.1 | \$15,000-\$25,000 | 28.5 | 25.1 | \$15,000-\$25,000 | 28.5 | 25.1 | \$15,000-\$25,000 | 28.5 |
| Health Status | Good | 32.1 | 29.5 | Good | 32.1 | 29.5 | Good | 32.1 | 29.5 | Good | 32.1 | 29.5 | Good | 32.1 | 29.5 | Good | 32.1 |
| Medication | 1-2 | 15.2 | 12.8 | 1-2 | 15.2 | 12.8 | 1-2 | 15.2 | 12.8 | 1-2 | 15.2 | 12.8 | 1-2 | 15.2 | 12.8 | 1-2 | 15.2 |
| Comorbidities | Hypertension | 25.1 | 22.5 | Hypertension | 25.1 | 22.5 | Hypertension | 25.1 | 22.5 | Hypertension | 25.1 | 22.5 | Hypertension | 25.1 | 22.5 | Hypertension | 25.1 |
| Diabetes | 18.2 | 15.8 | Diabetes | 18.2 | 15.8 | Diabetes | 18.2 | 15.8 | Diabetes | 18.2 | 15.8 | Diabetes | 18.2 | 15.8 | Diabetes | 18.2 | 15.8 |
| Cholesterol | High | 22.5 | 20.1 | High | 22.5 | 20.1 | High | 22.5 | 20.1 | High | 22.5 | 20.1 | High | 22.5 | 20.1 | High | 22.5 |
| Smoking | Current | 12.1 | 10.5 | Current | 12.1 | 10.5 | Current | 12.1 | 10.5 | Current | 12.1 | 10.5 | Current | 12.1 | 10.5 | Current | 12.1 |
| Alcohol | Occasional | 15.2 | 12.8 | Occasional | 15.2 | 12.8 | Occasional | 15.2 | 12.8 | Occasional | 15.2 | 12.8 | Occasional | 15.2 | 12.8 | Occasional | 15.2 |
| Stress | High | 28.5 | 25.1 | High | 28.5 | 25.1 | High | 28.5 | 25.1 | High | 28.5 | 25.1 | High | 28.5 | 25.1 | High | 28.5 |
| Loneliness | High | 32.1 | 29.5 | High | 32.1 | 29.5 | High | 32.1 | 29.5 | High | 32.1 | 29.5 | High | 32.1 | 29.5 | High | 32.1 |
| Depression | High | 35.2 | 32.8 | High | 35.2 | 32.8 | High | 35.2 | 32.8 | High | 35.2 | 32.8 | High | 35.2 | 32.8 | High | 35.2 |
| Anxiety | High | 38.5 | 35.1 | High | 38.5 | 35.1 | High | 38.5 | 35.1 | High | 38.5 | 35.1 | High | 38.5 | 35.1 | High | 38.5 |
| Life Satisfaction | Low | 25.1 | 22.5 | Low | 25.1 | 22.5 | Low | 25.1 | 22.5 | Low | 25.1 | 22.5 | Low | 25.1 | 22.5 | Low | 25.1 |
| Physical Activity | Low | 15.2 | 12.8 | Low | 15.2 | 12.8 | Low | 15.2 | 12.8 | Low | 15.2 | 12.8 | Low | 15.2 | 12.8 | Low | 15.2 |
| Sleep | Disturbed | 28.5 | 25.1 | Disturbed | 28.5 | 25.1 | Disturbed | 28.5 | 25.1 | Disturbed | 28.5 | 25.1 | Disturbed | 28.5 | 25.1 | Disturbed | 28.5 |
| Appetite | Reduced | 22.5 | 20.1 | Reduced | 22.5 | 20.1 | Reduced | 22.5 | 20.1 | Reduced | 22.5 | 20.1 | Reduced | 22.5 | 20.1 | Reduced | 22.5 |
| Weight | Stable | 12.1 | 10.5 | Stable | 12.1 | 10.5 | Stable | 12.1 | 10.5 | Stable | 12.1 | 10.5 | Stable | 12.1 | 10.5 | Stable | 12.1 |
| Blood Pressure | High | 25.1 | 22.5 | High | 25.1 | 22.5 | High | 25.1 | 22.5 | High | 25.1 | 22.5 | High | 25.1 | 22.5 | High | 25.1 |
| Blood Sugar | High | 18.2 | 15.8 | High | 18.2 | | | | | | | | | | | | |

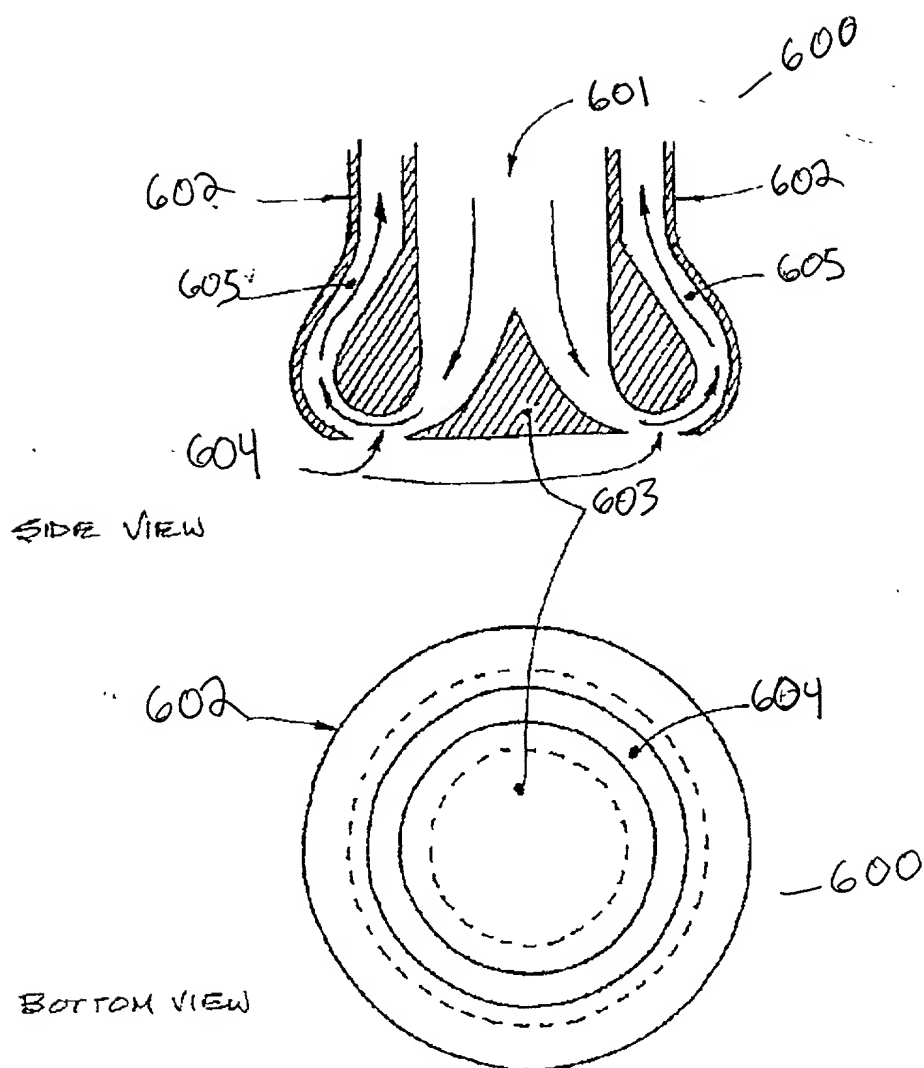


FIGURE 6.
(PRIOR ART)

1003336-11901

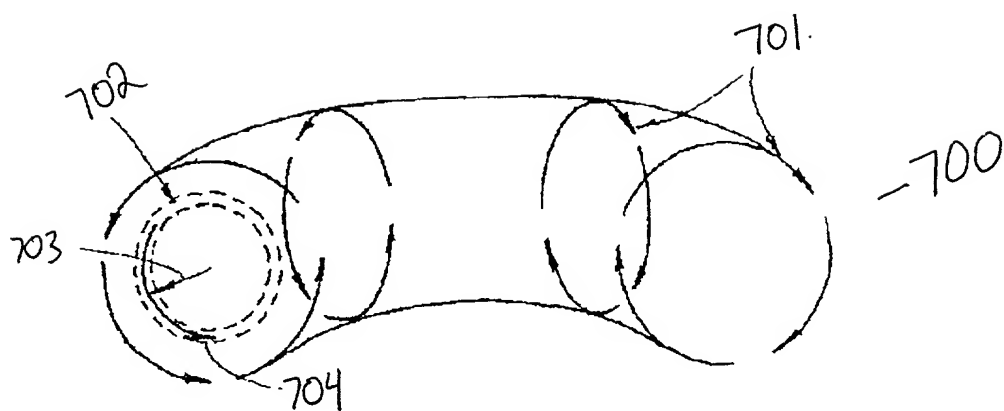


FIGURE 7.

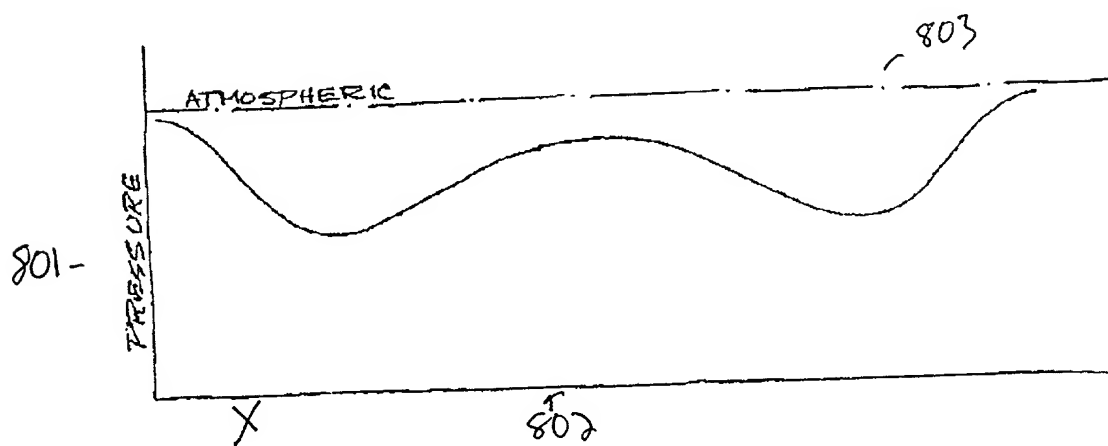


FIGURE 8.

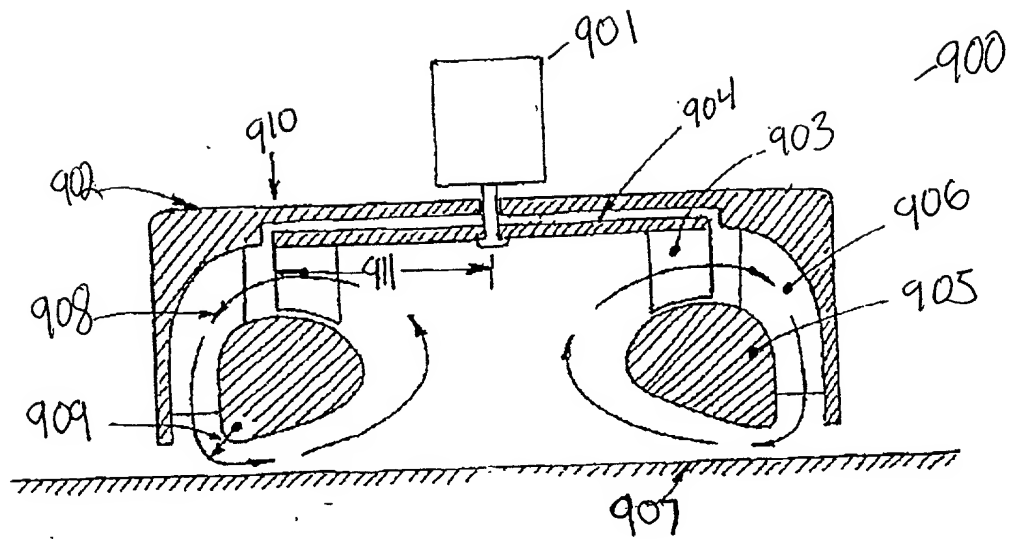


FIGURE 9.

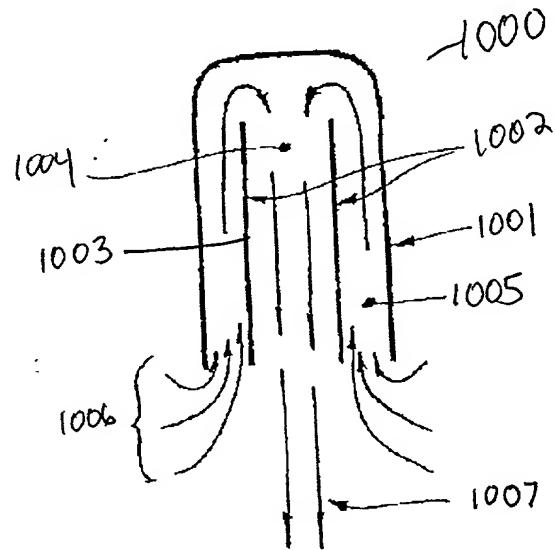


FIGURE 10.

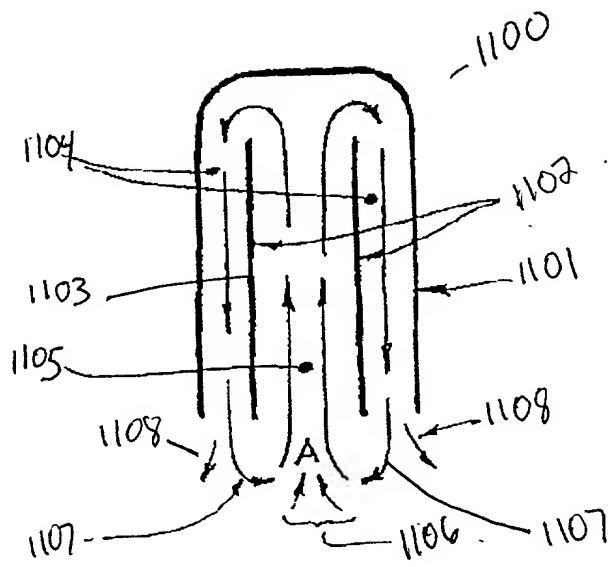


FIGURE 11.

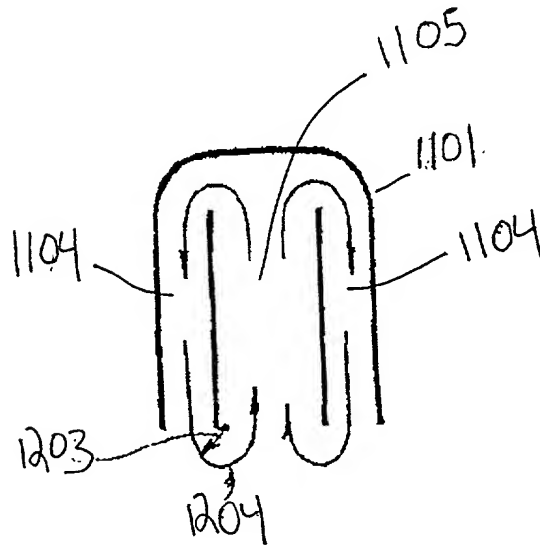


FIGURE 12.

FIG. 13

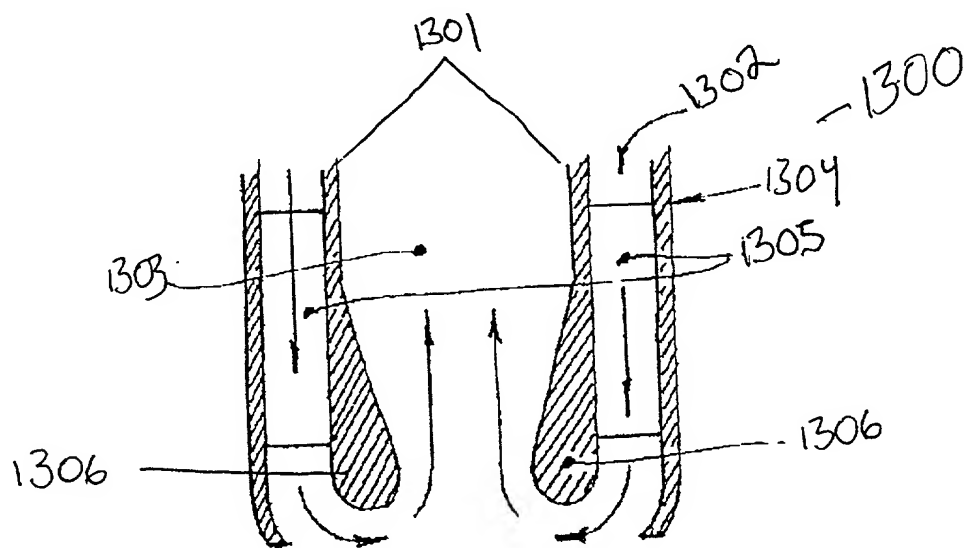


FIGURE 13.

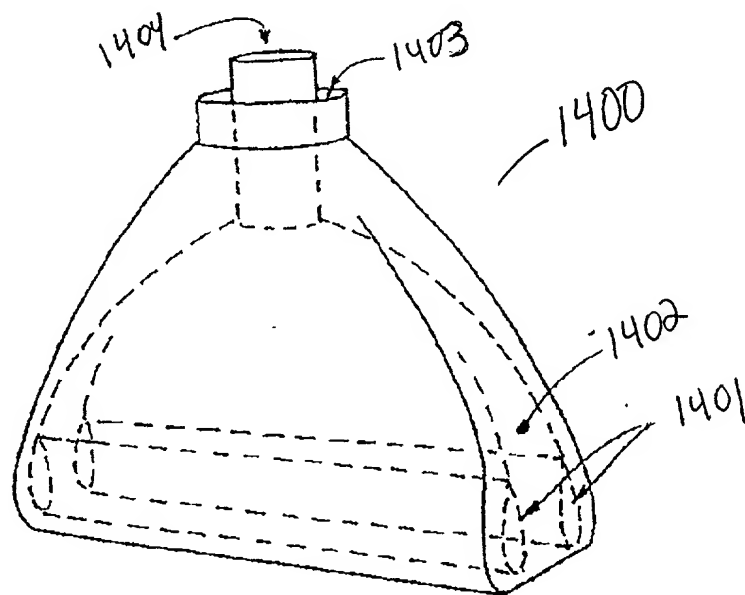


FIGURE 14.

10025376-161991

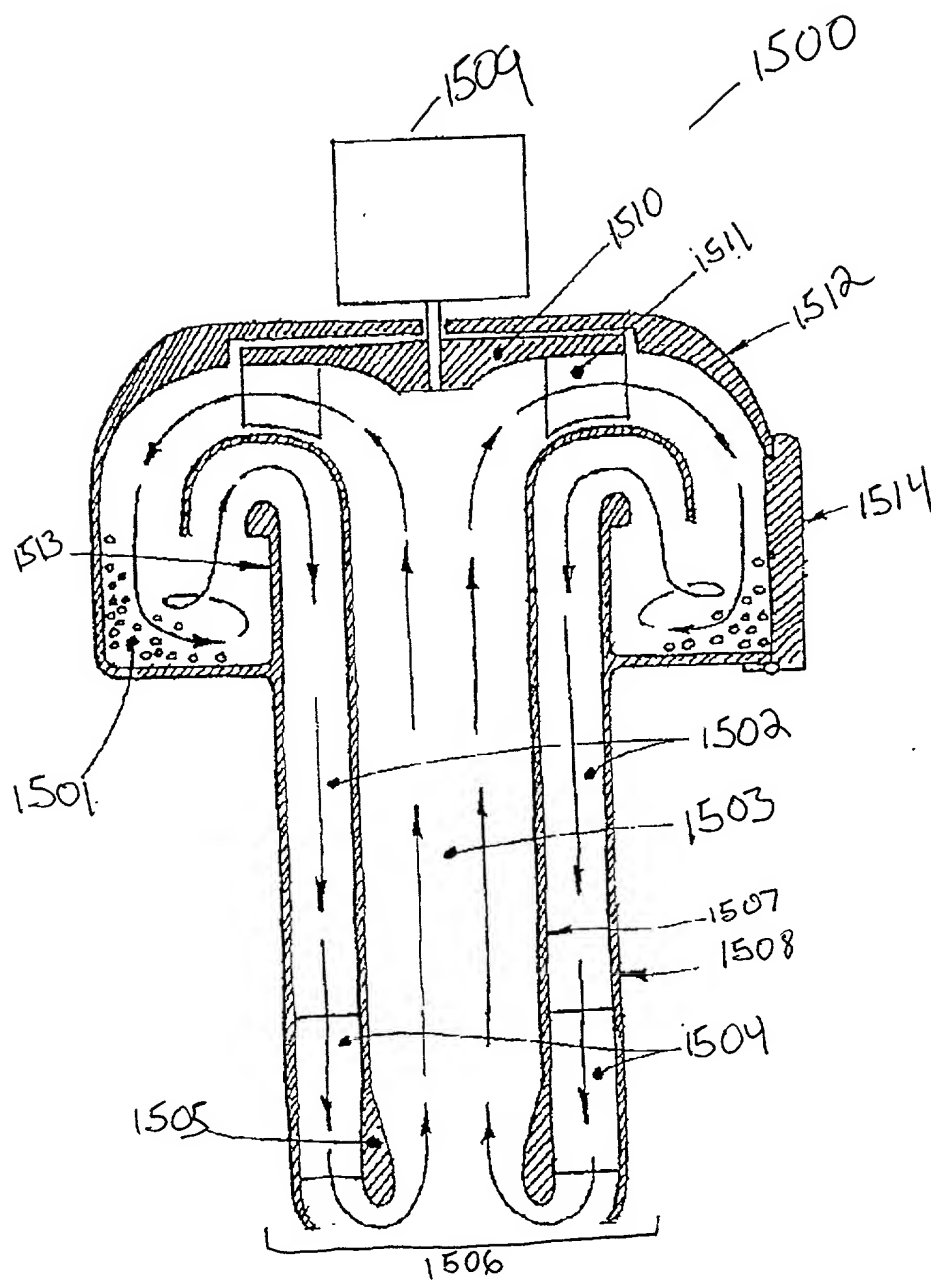
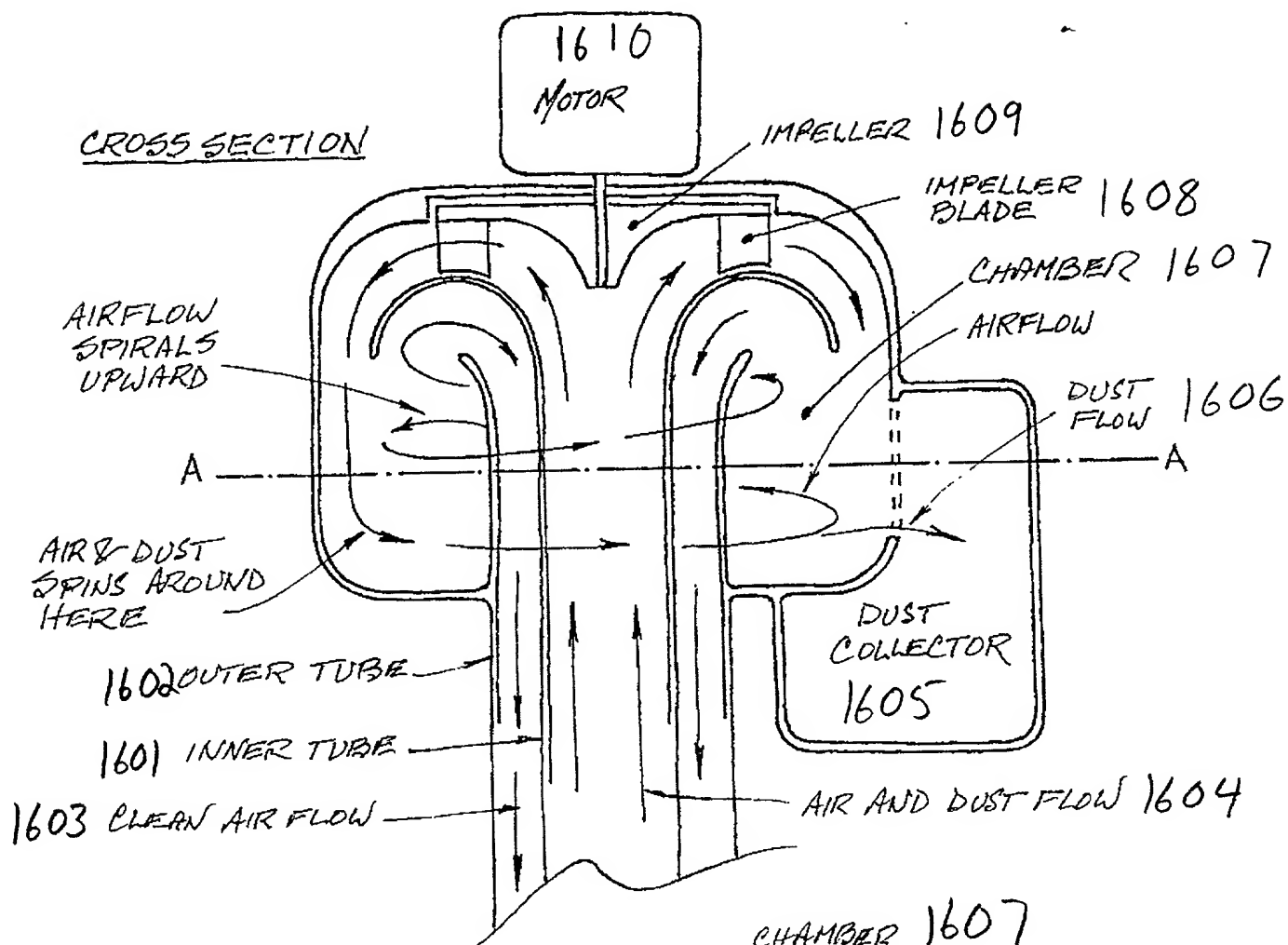


FIGURE 15.

CROSS SECTION



SECTION A-A

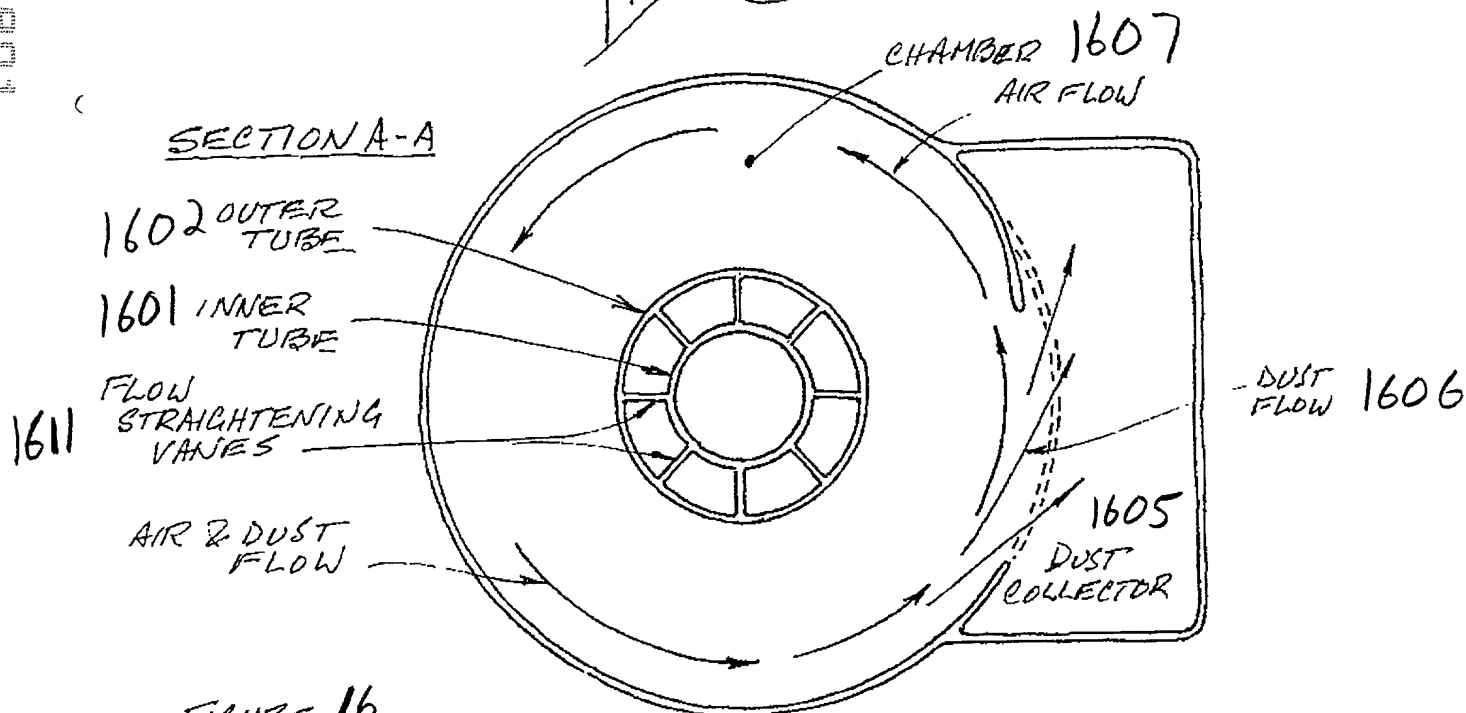


FIGURE 16

TOROIDAL VORTEX VACUUM CLEANER
CENTRIFUGAL DUST SEPARATOR

Willingworth
11 Sept 01